

Classwork/Homework: Find the radius/interval of conv.
for the following series:

$$1.) \sum_{n=1}^{\infty} \frac{x^n}{n^2}$$

$$3.) \sum_{n=1}^{\infty} \frac{(x+2)^n}{n}$$

$$2.) \sum_{n=1}^{\infty} \frac{5^n \cdot x^n}{n!}$$

$$4.) \sum_{n=1}^{\infty} \frac{n! \cdot x^n}{n^2}$$